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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/711,646	Applicant(s) PANASYUK ET AL.	
	Examiner O. C. VOSTAL	Art Unit 2453	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 December 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-24 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-24 presented for examination.
2. This action is in response to remarks and arguments filed on December 10, 2008, after non-final rejection of application 10/711646.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Crump et al., US Patent 6,484,206 B2 (effective filing date is October 7, 1998), hereinafter Crump, in views of Jones et al., US Patent 7,010,300 B1 (effective filing date is June 15, 2000), hereinafter Jones, and further in views of Laursen et al., US Patent 6,065,120 (effective filing date is December 9, 1997), hereinafter Laursen.
5. Regarding claim 1, Crump disclose

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a method for reconnecting a client to a host service, the method comprising the steps of:

- (a) providing a first connection between a client and a first protocol service, and a second connection between the first protocol service and a host service (Crump fig 4A and col 4 lines 37-50; clients 102 communicate with the translating apparatus 110 over a first protocol network 106 using a first communication protocol, and the translating apparatus 110 communicates with the server 118 over a second protocol network 114 using a second communication protocol.);
- (b) detecting a disruption in the first connection (Crump col 2 lines 22-25 and col 4 lines 5-33; upon detection of an initial connection failure. detects a failure. failure is similar to disruption.);
- (c) re-establishing the first connection between the client and the first protocol service (Crump col 2 lines 15-25; performs a connection establishment procedure to re-establish the selected connection. re-establish failed connections.);

Crump does not disclose, but in a similar field of endeavor, Jones disclose

- (c) while maintaining the second connection between the first protocol service and the host service (Jones col 4 lines 28-58; when handing-off an ongoing communication session via the second access system to the mobile station in the first access system. handing-off an ongoing communication session is similar to maintaining the second connection.);

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- (f) linking, after the ticket is validated, the re-established (“re-associating”) first connection (other wireless access points) to the maintained second connection (other wireless access points, wireless access point 424, association with the WLAN) (Jones col 20 lines 31-67 and col 28 lines 6-38; After the MSC 636, directly or indirectly, receives the signaling messages containing the instructions to route the incoming PCM data to the mobile station 116. to the gateway 620. Gateway 620 is similar to first connection. the gateway 620 sends the incoming 802.11-framed-EVRC-data packages to the WLAN server 432 using a UDP/IP over the IEEE 802.11 link. IEEE 802.11 link allows sending package through second connection to WLAN server. In mobile client wireless situation... the process of association with the WLAN may include the mobile station 116 “re-associating” with the other wireless access points, with or without disassociating with wireless access point 424. Once re-associated, the WLAN subscriber’s mobile station 116 is capable of communicating with the other wireless access points, and if still associated, with wireless access point 424.).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to readily recognize the advantage of modifying Crump’s system that provides the user a translating apparatus includes translating function for recovering multiple connections in a communication network. The

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translating function detects a failure affecting a plurality of connections with the features of Jones's system for handing off an ongoing communication session engaged in a mobile station via a first access system, to the mobile station via a second access system.

The motivation being an efficient technique for recovering multiple connections which includes using the public wireless network elements to control the transmission of communication services in both the public and private wireless network.

Crump and Jones do not disclose, but in a similar field of endeavor Lauren disclose

- (d) receiving at the first protocol service a ticket associated with the client (Lauren col 8 lines 20-26 and col 9 lines 55-65; if supplied username and password match those is the account structure 143, the access requested by the PC 110 is allowed. access requested is similar to receiving. the authentication process is conducted with three message exchanges; a Session Request (SR)... Session Request is similar to ticket. The client 170... initiates a SR 174 to be sent to the server 174. Also, to be sent to is similar to receiving at.);
- (e) validating the ticket (Lauren col 11 lines 5-16; a procedure that adds and validates the Message Authentication Code. in the received SR are

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successfully decrypted with the shard secret encrypt key, the step one in the client authentication is successful.); and

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to readily recognize the advantage of modifying Crump's system that provides the user a translating apparatus includes translating function for recovering multiple connections in a communication network. The translating function detects a failure affecting a plurality of connections with the features of Lauren's system a generic solution for communicating desired ideas or transactions from other devices with rich user interface to such a thin client through a self-provisioned account entry.

The motivation being an efficient technique for recovering multiple connections which includes the user who is the only one who knows the credential information created in an authenticated and secure communication session for the rendezvous, thereby the account becomes truly proprietary.

6. Regarding claim 2, Crump do not disclose, but in a similar field of endeavor Jones disclose

the method of claim 1 wherein step (a) further comprises authenticating the client with the host service during a first communication session between the client and the host service (Jones col 20 lines 19-25; after the mobile station 116 receives

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the synchronization information and synchronizes with wireless access point 424,
the mobile station 116 the “authenticates” with the WLAN. mobile station 116 is
similar to client. WLAN is similar to host service.).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to readily recognize the advantage of modifying Crump's system that provides the user a translating apparatus includes translating function for recovering multiple connections in a communication network. The translating function detects a failure affecting a plurality of connections with the features of Jones's system for handing off an ongoing communication session engaged in a mobile station via a first access system, to the mobile station via a second access system.

The motivation being an efficient technique for recovering multiple connections which includes using the public wireless network elements to control the transmission of communication services in both the public and private wireless network.

7. Regarding claim 3, Crump and Jones do not disclose, but in a similar field of endeavor Lauren disclose
the method of claim 1 wherein step (e) further comprises obtaining, from the ticket, a key and session id (Laursen col 10 lines 63-67 and col 11 lines 1-10;

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Upon receiving the SR from the client 170, the server 172 creates a server proto session for the client 170 with a session identifier, referred to as session ID. If server 172 is satisfied with the fact that the client is known, namely Encry[C-nonce, C-nonceModified] in the received SR are successfully decrypted with the shared secret encrypt key, the step on in the client authentication is successful and a correspond session key is generated and stored. SR is similar to ticket. successfully decrypted with the shared secret encrypt key is similar to obtaining a key.).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to readily recognize the advantage of modifying Crump's system that provides the user a translating apparatus includes translating function for recovering multiple connections in a communication network. The translating function detects a failure affecting a plurality of connections with the features of Lauren's system a generic solution for communicating desired ideas or transactions from other devices with rich user interface to such a thin client through a self-provisioned account entry.

The motivation being an efficient technique for recovering multiple connections which includes the user who is the only one who knows the credential information created in an authenticated and secure communication session for the rendezvous, thereby the account becomes truly proprietary.

8. Regarding claim 4, Crump and Jones do not disclose, but in a similar field of endeavor Lauren disclose

the method of claim 3 wherein step (e) further comprises using the session id from the ticket to retrieve encrypted authentication credentials (Laursen col 10 lines 63-67 and col 11 lines 1-10; Upon receiving the SR from the client 170, the server 172 creates a server proto session for the client 170 with a session identifier, referred to as session ID. If server 172 is satisfied with the fact that the client is known, namely Encry[C-nonce, C-nonceModified] in the received SR are successfully decrypted with the shard secret encrypt key, the step one in the client authentication is successful and a correspond session key is generated and stored. SR is similar to ticket. if server 172 is satisfied... are successfully decrypted... client authentication is successful is similar to retrieve encrypted authentication credentials.).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to readily recognize the advantage of modifying Crump's system that provides the user a translating apparatus includes translating function for recovering multiple connections in a communication network. The translating function detects a failure affecting a plurality of connections with the features of Lauren's system a generic solution for communicating desired ideas

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or transactions from other devices with rich user interface to such a thin client through a self-provisioned account entry.

The motivation being an efficient technique for recovering multiple connections which includes the user who is the only one who knows the credential information created in an authenticated and secure communication session for the rendezvous, thereby the account becomes truly proprietary.

9. Regarding claim 5, Crump and Jones do not disclose, but in a similar field of endeavor Lauren disclose the method of claim 4 wherein step (e) further comprises using the key from the ticket to decrypt the retrieved authentication credentials (Laursen col 11 lines 5-15; successfully decrypted with the shared secret encrypt key, the step one in the client authentication is successful.).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to readily recognize the advantage of modifying Crump's system that provides the user a translating apparatus includes translating function for recovering multiple connections in a communication network. The translating function detects a failure affecting a plurality of connections with the features of Lauren's system a generic solution for communicating desired ideas

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or transactions from other devices with rich user interface to such a thin client through a self-provisioned account entry.

The motivation being an efficient technique for recovering multiple connections which includes the user who is the only one who knows the credential information created in an authenticated and secure communication session for the rendezvous, thereby the account becomes truly proprietary.

10. Regarding claim 6, Crump and Jones do not disclose, but in a similar field of endeavor Lauren disclose the method of claim 5 wherein step (e) further comprises re-authenticating the client with the host service using the decrypted authentication credentials (Laursen col 11 lines 5-15 and lines 30-35; successfully decrypted with the shard secret encrypt key, the step one in the client authentication is successful. If Encry[C-nonce, C-nonceModified] can not be successfully decrypted due to other reasons such as transmission errors, the client must reinitiate a new session request to the server in order to establish a secure communication with the server. Reinitiate.. to establish a secure is similar to re-authenticate.).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to readily recognize the advantage of modifying Crump's system that provides the user a translating apparatus includes translating

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function for recovering multiple connections in a communication network. The translating function detects a failure affecting a plurality of connections with the features of Lauren's system a generic solution for communicating desired ideas or transactions from other devices with rich user interface to such a thin client through a self-provisioned account entry.

The motivation being an efficient technique for recovering multiple connections which includes the user who is the only one who knows the credential information created in an authenticated and secure communication session for the rendezvous, thereby the account becomes truly proprietary.

11. Regarding claim 7, Crump and Jones do not disclose, but in a similar field of endeavor Lauren disclose

the method of claim 1 wherein step (f) further comprises deleting, after the ticket is validated, the ticket (Laursen col 9 lines 60-67, col 11 lines 30-55 and col 12 lines 15-20; to conduct a transaction with the server 172, representing a link server 114 of FIG. 2, initiates a SR 174 to be sent to the server 172 by first creating a client proto-session. A client proto-session is a session data structure that gets initialized when a session creation starts. The SP 176 to begin a second round... C-SID=0 indicates a clear text client session. C-SID=0 is similar to deleting. Also, proto session is aborted and removed from the proto

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session table. Upon the success of the step one server authentication, the client 170 proceeds with the step two server authentication.).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to readily recognize the advantage of modifying Crump's system that provides the user a translating apparatus includes translating function for recovering multiple connections in a communication network. The translating function detects a failure affecting a plurality of connections with the features of Lauren's system a generic solution for communicating desired ideas or transactions from other devices with rich user interface to such a thin client through a self-provisioned account entry.

The motivation being an efficient technique for recovering multiple connections which includes the user who is the only one who knows the credential information created in an authenticated and secure communication session for the rendezvous, thereby the account becomes truly proprietary.

12. Regarding claim 8, Crump and Jones do not disclose, but in a similar field of endeavor Lauren disclose

the method of claim 2 wherein step (f) further comprises generating, after the ticket is deleted, a replacement ticket (Laursen col 12 lines 15-20; the client 170

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discards the SP 176 and a new session creation may be started over again. new session creation is similar to generating a replacement.).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to readily recognize the advantage of modifying Crump's system that provides the user a translating apparatus includes translating function for recovering multiple connections in a communication network. The translating function detects a failure affecting a plurality of connections with the features of Lauren's system a generic solution for communicating desired ideas or transactions from other devices with rich user interface to such a thin client through a self-provisioned account entry.

The motivation being an efficient technique for recovering multiple connections which includes the user who is the only one who knows the credential information created in an authenticated and secure communication session for the rendezvous, thereby the account becomes truly proprietary.

13. Regarding claim 9, Crump and Jones do not disclose, but in a similar field of endeavor Lauren disclose

the method of claim 1 wherein step (a) further comprises generating a ticket at the first protocol service (Lauren col 8 lines 20-26 and col 9 lines 55-65; if supplied username and password match those is the account structure 143,

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the access requested by the PC 110 is allowed. access requested is similar to receiving. the authentication process is conducted with three message exchanges; a Session Request (SR)... Session Request is similar to ticket. The client 170... initiates a SR 174 to be sent to the server 174. Also, to be sent is similar to generating.).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to readily recognize the advantage of modifying Crump's system that provides the user a translating apparatus includes translating function for recovering multiple connections in a communication network. The translating function detects a failure affecting a plurality of connections with the features of Lauren's system a generic solution for communicating desired ideas or transactions from other devices with rich user interface to such a thin client through a self-provisioned account entry.

The motivation being an efficient technique for recovering multiple connections which includes the user who is the only one who knows the credential information created in an authenticated and secure communication session for the rendezvous, thereby the account becomes truly proprietary.

14. Regarding claim 10, Crump and Jones do not disclose, but in a similar field of endeavor Lauren disclose

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the method of claim 9 wherein step (a) further comprises saving, at the first protocol service, a copy of the ticket (Laursen col 11 lines 5-7; The information in the received SR is saved in the server proto-session. Information in the received SR is similar to copy of the ticket.).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to readily recognize the advantage of modifying Crump's system that provides the user a translating apparatus includes translating function for recovering multiple connections in a communication network. The translating function detects a failure affecting a plurality of connections with the features of Lauren's system a generic solution for communicating desired ideas or transactions from other devices with rich user interface to such a thin client through a self-provisioned account entry.

The motivation being an efficient technique for recovering multiple connections which includes the user who is the only one who knows the credential information created in an authenticated and secure communication session for the rendezvous, thereby the account becomes truly proprietary.

15. Regarding claim 11, Crump and Jones do not disclose, but in a similar field of endeavor Lauren disclose

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the method of claim 4 wherein step (a) further comprises transmitting the ticket from the first protocol service to the client (Laursen col 11 lines 43-47; Right after the successful step one client authentication, the server 172 responds to the client with a Session reply (SP) 176 to begin a second round authentication; server authentication. Responds to is similar to transmitting the ticket from.).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to readily recognize the advantage of modifying Crump's system that provides the user a translating apparatus includes translating function for recovering multiple connections in a communication network. The translating function detects a failure affecting a plurality of connections with the features of Lauren's system a generic solution for communicating desired ideas or transactions from other devices with rich user interface to such a thin client through a self-provisioned account entry.

The motivation being an efficient technique for recovering multiple connections which includes the user who is the only one who knows the credential information created in an authenticated and secure communication session for the rendezvous, thereby the account becomes truly proprietary.

16. Regarding claim 12, Crump do not disclose, but in a similar field of endeavor Jones disclose

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the method of claim 1 wherein step (a) further comprises deleting the ticket automatically after a pre-determined period of time (Jones col 21 lines 28-35; the WLAN server 432 may wait a period of time before signaling the gateway 420. Waiting the period of time may allow handing off the ongoing communication to the mobile station 116 via the WLAN without a cognizable delay. Otherwise, an identifiable delay or break in the ongoing communication may result. waiting a period of time is similar to pre-determined period of time. identifiable delay or break is similar to deleting.).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to readily recognize the advantage of modifying Crump's system that provides the user a translating apparatus includes translating function for recovering multiple connections in a communication network. The translating function detects a failure affecting a plurality of connections with the features of Jones's system for handing off an ongoing communication session engaged in a mobile station via a first access system, to the mobile station via a second access system.

The motivation being an efficient technique for recovering multiple connections which includes using the public wireless network elements to control the transmission of communication services in both the public and private wireless network.

17. Regarding claim 13, Crump disclose

a system for reconnecting a client to a host service, the system comprising:

- (a) a client configured to maintain a first connection with a first protocol service (Crump fig 4A, col 3 lines 20-23, col 4 lines 37-50 and col 9 lines 1-22, translating apparatus 110 facilitates communication between the clients 102 and the server 118 by establishing connections. facilitates communication is similar to maintain a first connection. control logic 204 is implemented as a set of program instructions that are stored in a computer readable memory. Also, logic described herein can be embodied using discrete components, integrated circuitry, programmable logic. Implemented and embodied are similar to configured. clients 102 communicate with the translating apparatus 110 over a first protocol network 106 using a first communication protocol.); and
- (b) and a second connection with the host service (Crump fig 4A, col 3 lines 20-23, col 4 lines 37-50 and col 9 lines 1-22, translating apparatus 110 facilitates communication between the clients 102 and the server 118 by establishing connections. control logic 204 is implemented as a set of program instructions that are stored in a computer readable memory. Also, logic described herein can be embodied using discrete components, integrated circuitry, programmable logic. Implemented and embodied are similar to configured. clients 102 communicate with the translating

apparatus 110 over a first protocol network 106 using a first communication protocol, and the translating apparatus 110 communicates with the server 118 over a second protocol network 114 using a second communication protocol.), wherein:

- (c) a disruption is detected in the first connection (Crump col 2 lines 22-25 and col 4 lines 5-33; upon detection of an initial connection failure. detects a failure. failure is similar to disruption.);
- (d) the first connection is re-established between the client and the first protocol service while the second connection between the first protocol service and the host service is maintained (Crump col 2 lines 15-25; performs a connection establishment procedure to re-establish the selected connection. re-establish failed connections.);

Crump do not disclose, but in a similar field of endeavor Jones disclose

- (b) the first protocol service configured to maintain the first connection with the client and a second connection with the host service (Jones col 7 lines 35-45 and col 4 lines 28-58; the lower cost may be realized by utilizing the WLAN configuration as a result of no license fees or license auctions necessary for utilizing the frequency spectrum represented by the 802.11 implementation. Alternatively, the public wireless network and the private wireless network may be co-located, integral to, and/or integrated into the same equipment. when handing-off an ongoing communication session via the second access system to the mobile station in the first access

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system. handing-off an ongoing communication session is similar to maintaining the second connection.)

- (g) after the ticket is validated, the re-established (“re-associating”) first connection (other wireless access points) is linked to the maintained second connection (other wireless access points, wireless access point 424, association with the WLAN) (Jones col 20 lines 31-67 and col 28 lines 6-38; After the MSC 636, directly or indirectly, receives the signaling messages containing the instructions to route the incoming PCM data to the mobile station 116. to the gateway 620. Gateway 620 is similar to first connection. the gateway 620 sends the incoming 802.11-framed-EVRC-data packages to the WLAN server 432 using a UDP/IP over the IEEE 802.11 link. IEEE 802.11 link allows sending package through second connection to WLAN server. In mobile client wireless situation... the process of association with the WLAN may include the mobile station 116 “re-associating” with the other wireless access points, with or without disassociating with wireless access point 424. Once re-associated, the WLAN subscriber’s mobile station 116 is capable of communicating with the other wireless access points, and if still associated, with wireless access point 424.).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to readily recognize the advantage of modifying Crump’s

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system that provides the user a translating apparatus includes translating function for recovering multiple connections in a communication network. The translating function detects a failure affecting a plurality of connections with the features of Jones's system for handing off an ongoing communication session engaged in a mobile station via a first access system, to the mobile station via a second access system.

The motivation being an efficient technique for recovering multiple connections which includes using the public wireless network elements to control the transmission of communication services in both the public and private wireless network.

Crump and Jones do not disclose, but in a similar field of endeavor Lauren disclose

- (e) a ticket associated with the client is transmitted from the client to the first protocol service (Lauren col 8 lines 20-26 and col 9 lines 55-65; if supplied username and password match those is the account structure 143, the access requested by the PC 110 is allowed. access requested is similar to receiving. the authentication process is conducted with three message exchanges; a Session Request (SR)... Session Request is similar to ticket. The client 170... initiates a SR 174 to be sent to the server 174. Also, initiates a SR 174 to be sent is similar to transmitted from.) ;

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- (f) the ticket is validated (Lauren col 11 lines 5-16; a procedure that adds and validates the Message Authentication Code. in the received SR are successfully decrypted with the shard secret encrypt key, the step one in the client authentication is successful.); and

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to readily recognize the advantage of modifying Crump's system that provides the user a translating apparatus includes translating function for recovering multiple connections in a communication network. The translating function detects a failure affecting a plurality of connections with the features of Lauren's system a generic solution for communicating desired ideas or transactions from other devices with rich user interface to such a thin client through a self-provisioned account entry.

The motivation being an efficient technique for recovering multiple connections which includes the user who is the only one who knows the credential information created in an authenticated and secure communication session for the rendezvous, thereby the account becomes truly proprietary.

18. Regarding claim 14, Crump do not disclose, but in a similar field of endeavor Jones disclose

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the system of claim 13 wherein the client is authenticated with the host service during a first communication session between the client and the host service (Jones col 20 lines 19-25; after the mobile station 116 receives the synchronization information and synchronizes with wireless access point 424, the mobile station 116 the “authenticates” with the WLAN. mobile station 116 is similar to client. WLAN is similar to host service.).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to readily recognize the advantage of modifying Crump's system that provides the user a translating apparatus includes translating function for recovering multiple connections in a communication network. The translating function detects a failure affecting a plurality of connections with the features of Jones's system for handing off an ongoing communication session engaged in a mobile station via a first access system, to the mobile station via a second access system.

The motivation being an efficient technique for recovering multiple connections which includes using the public wireless network elements to control the transmission of communication services in both the public and private wireless network.

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19. Regarding claim 15, Crump and Jones do not disclose, but in a similar field of endeavor Lauren disclose
- the system of claim 13 wherein the ticket comprises a key and session id
- (Laursen col 10 lines 63-67; Upon receiving the SR from the client 170, the server 172 creates a server proto session for the client 170 with a session identifier, referred to as session ID. If server 172 is satisfied with the fact that the client is known, namely Encry[C-nonce, C-nonceModified] in the received SR are successfully decrypted with the shared secret encrypt key, the step on in the client authentication is successful and a correspond session key is generated and stored. SR is similar to ticket. successfully decrypted with the shared secret encrypt key is similar to obtaining a key.)

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to readily recognize the advantage of modifying Crump's system that provides the user a translating apparatus includes translating function for recovering multiple connections in a communication network. The translating function detects a failure affecting a plurality of connections with the features of Lauren's system a generic solution for communicating desired ideas or transactions from other devices with rich user interface to such a thin client through a self-provisioned account entry.

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The motivation being an efficient technique for recovering multiple connections which includes the user who is the only one who knows the credential information created in an authenticated and secure communication session for the rendezvous, thereby the account becomes truly proprietary.

20. Regarding claim 16, Crump and Jones do not disclose, but in a similar field of endeavor Lauren disclose
- the system of claim 15 wherein the ticket is validated by the first protocol service using the session id to retrieve encrypted authentication credentials (Laursen col 10 lines 63-67; Upon receiving the SR from the client 170, the server 172 creates a server proto session for the client 170 with a session identifier, referred to as session ID. If server 172 is satisfied with the fact that the client is known, namely Encry[C-nonce, C-nonceModified] in the received SR are successfully decrypted with the shard secret encrypt key, the step one in the client authentication is successful and a correspond session key is generated and stored. SR is similar to ticket. if server 172 is satisfied... are successfully decrypted... client authentication is successful is similar to retrieve encrypted authentication credentials.).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to readily recognize the advantage of modifying Crump's system that provides the user a translating apparatus includes translating

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function for recovering multiple connections in a communication network. The translating function detects a failure affecting a plurality of connections with the features of Lauren's system a generic solution for communicating desired ideas or transactions from other devices with rich user interface to such a thin client through a self-provisioned account entry.

The motivation being an efficient technique for recovering multiple connections which includes the user who is the only one who knows the credential information created in an authenticated and secure communication session for the rendezvous, thereby the account becomes truly proprietary.

21. Regarding claim 17, Crump and Jones do not disclose, but in a similar field of endeavor Lauren disclose
- the system of claim 16 wherein the ticket is further validated by decrypting the retrieved authentication credentials with the key from the ticket (Laursen col 11 lines 5-15; successfully decrypted with the shared secret encrypt key, the step one in the client authentication is successful.).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to readily recognize the advantage of modifying Crump's system that provides the user a translating apparatus includes translating function for recovering multiple connections in a communication network. The

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translating function detects a failure affecting a plurality of connections with the features of Lauren's system a generic solution for communicating desired ideas or transactions from other devices with rich user interface to such a thin client through a self-provisioned account entry.

The motivation being an efficient technique for recovering multiple connections which includes the user who is the only one who knows the credential information created in an authenticated and secure communication session for the rendezvous, thereby the account becomes truly proprietary.

22. Regarding claim 18, Crump and Jones do not disclose, but in a similar field of endeavor Lauren disclose
- the system of claim 17 wherein the client is re-authenticated with the host service using the decrypted authentication credentials (Laursen col 11 lines 5-15 and lines 30-35; successfully decrypted with the shard secret encrypt key, the step one in the client authentication is successful. If Encry[C-nonce, C-nonceModified] can not be successfully decrypted due to other reasons such as transmission errors, the client must reinitiate a new session request to the server in order to establish a secure communication with the server. Reinitiate.. to establish a secure is similar to re-authenticate.).

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Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to readily recognize the advantage of modifying Crump's system that provides the user a translating apparatus includes translating function for recovering multiple connections in a communication network. The translating function detects a failure affecting a plurality of connections with the features of Lauren's system a generic solution for communicating desired ideas or transactions from other devices with rich user interface to such a thin client through a self-provisioned account entry.

The motivation being an efficient technique for recovering multiple connections which includes the user who is the only one who knows the credential information created in an authenticated and secure communication session for the rendezvous, thereby the account becomes truly proprietary.

23. Regarding claim 19, Crump and Jones do not disclose, but in a similar field of endeavor Lauren disclose
- the system of claim 13 wherein the first protocol service is further configured to delete, after the ticket is validated, the ticket (Laursen col 9 lines 60-67, col 11 lines 30-55 and col 12 lines 15-20; to conduct a transaction with the server 172, representing a link server 114 of FIG. 2, initiates a SR 174 to be sent to the server 172 by first creating a client proto-session. A client proto-session is a session data structure that gets initialized when a session creation starts. The

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SP 176 to begin a second round... C-SID=0 indicates a clear text client session. C-SID=0 is similar to deleting. Also, proto session is aborted and removed from the proto session table. Upon the success of the step one server authentication, the client 170 proceeds with the step two server authentication.).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to readily recognize the advantage of modifying Crump's system that provides the user a translating apparatus includes translating function for recovering multiple connections in a communication network. The translating function detects a failure affecting a plurality of connections with the features of Lauren's system a generic solution for communicating desired ideas or transactions from other devices with rich user interface to such a thin client through a self-provisioned account entry.

The motivation being an efficient technique for recovering multiple connections which includes the user who is the only one who knows the credential information created in an authenticated and secure communication session for the rendezvous, thereby the account becomes truly proprietary.

24. Regarding claim 20, Crump and Jones do not disclose, but in a similar field of endeavor Lauren disclose

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the system of claim 19 wherein the first protocol service is further configured to generate, after the ticket is deleted, a replacement ticket (Laursen col 12 lines 15-20; the client 170 discards the SP 176 and a new session creation may be started over again. new session creation is similar to generating a replacement.).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to readily recognize the advantage of modifying Crump's system that provides the user a translating apparatus includes translating function for recovering multiple connections in a communication network. The translating function detects a failure affecting a plurality of connections with the features of Lauren's system a generic solution for communicating desired ideas or transactions from other devices with rich user interface to such a thin client through a self-provisioned account entry.

The motivation being an efficient technique for recovering multiple connections which includes the user who is the only one who knows the credential information created in an authenticated and secure communication session for the rendezvous, thereby the account becomes truly proprietary.

25. Regarding claim 21, Crump and Jones do not disclose, but in a similar field of endeavor Lauren disclose

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the system of claim 13 wherein the first protocol service is further configured to generate the ticket (Lauren col 8 lines 20-26 and col 9 lines 55-65; if supplied username and password match those is the account structure 143, the access requested by the PC 110 is allowed. access requested is similar to receiving. the authentication process is conducted with three message exchanges; a Session Request (SR)... Session Request is similar to ticket. The client 170... initiates a SR 174 to be sent to the server 174. Also, to be sent is similar to generating.).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to readily recognize the advantage of modifying Crump's system that provides the user a translating apparatus includes translating function for recovering multiple connections in a communication network. The translating function detects a failure affecting a plurality of connections with the features of Lauren's system a generic solution for communicating desired ideas or transactions from other devices with rich user interface to such a thin client through a self-provisioned account entry.

The motivation being an efficient technique for recovering multiple connections which includes the user who is the only one who knows the credential information created in an authenticated and secure communication session for the rendezvous, thereby the account becomes truly proprietary.

26. Regarding claim 22, Crump and Jones do not disclose, but in a similar field of endeavor Lauren disclose
- the system of claim 12 wherein the first protocol service is further configured to save a copy of the ticket (Laursen col 11 lines 5-7; The information in the received SR is saved in the server proto-session. Information in the received SR is similar to copy of the ticket.).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to readily recognize the advantage of modifying Crump's system that provides the user a translating apparatus includes translating function for recovering multiple connections in a communication network. The translating function detects a failure affecting a plurality of connections with the features of Lauren's system a generic solution for communicating desired ideas or transactions from other devices with rich user interface to such a thin client through a self-provisioned account entry.

The motivation being an efficient technique for recovering multiple connections which includes the user who is the only one who knows the credential information created in an authenticated and secure communication session for the rendezvous, thereby the account becomes truly proprietary.

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27. Regarding claim 23, Crump and Jones do not disclose, but in a similar field of endeavor Lauren disclose
- the system of claim 13 wherein the first protocol service is further configured to transmit the ticket to the client (Laursen col 11 lines 43-47; Right after the successful step one client authentication, the server 172 responds to the client with a Session reply (SP) 176 to begin a second round authentication; server authentication. Responds to is similar to transmitting the ticket from.).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to readily recognize the advantage of modifying Crump's system that provides the user a translating apparatus includes translating function for recovering multiple connections in a communication network. The translating function detects a failure affecting a plurality of connections with the features of Lauren's system a generic solution for communicating desired ideas or transactions from other devices with rich user interface to such a thin client through a self-provisioned account entry.

The motivation being an efficient technique for recovering multiple connections which includes the user who is the only one who knows the credential information created in an authenticated and secure communication session for the rendezvous, thereby the account becomes truly proprietary.

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28. Regarding claim 24, Crump do not disclose, but in a similar field of endeavor Jones disclose

the system of claim 13 wherein the first protocol service is further configured to automatically delete the ticket after a pre-determined period of time (Jones col 21 lines 28-35; the WLAN server 432 may wait a period of time before signaling the gateway 420. Waiting the period of time may allow handing off the ongoing communication to the mobile station 116 via the WLAN without a cognizable delay. Otherwise, an identifiable delay or break in the ongoing communication may result. waiting a period of time is similar to pre-determined period of time. identifiable delay or break is similar to deleting.).

Thus, it would have been obvious to the person of ordinary skill in the art at the time of the invention to readily recognize the advantage of modifying Crump's system that provides the user a translating apparatus includes translating function for recovering multiple connections in a communication network. The translating function detects a failure affecting a plurality of connections with the features of Jones's system for handing off an ongoing communication session engaged in a mobile station via a first access system, to the mobile station via a second access system.

The motivation being an efficient technique for recovering multiple connections which includes using the public wireless network elements to control the

transmission of communication services in both the public and private wireless network.

Response to Arguments

29. Applicant's argued Jones fails to teach or suggest "linking, after the ticket is validate, the re-established first connection to the maintained second connection", as required by independent claims 1 and 13.

Examiner's response is application specification states a temporary disruption in a network connection may occur when a client, such as a mobile client, roams between different access points in the same network, or when a client switches between networks (e.g., from a wired network to a wireless network) in [0006].

Specification states provides automatic reconnection of a disrupted client connection to a host service without restarting applications or re-establishing sessions, including re-authentication without the user reentering authentication credentials in [0007]. And, specification states re-established first connection is linked to the maintained second connection [0007], re-established first connection with the maintained second connection [0008], [0011] and [0012].

The specification and claims do not include how a second connection (potentially in a wireless connection situation) is maintained when in a situation of the mobile client roams between different access points (where specific second access point is unknown until established by mobile client, there are potential for many/several

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other connections.). However, regarding 103 rejection of claim 1 limitation (f) and claim 13 limitation (g) above, further clarification was added. Hence, Jones and applicant are same in mobile wireless situations when referring to maintaining second connection. Clarification and/or more effort by applicant is necessary to overcome other wireless access points, wireless access point 424, association with the WLAN.

Conclusion

30. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

31. Any inquiry concerning this communication or earlier communications from the examiner should be directed to O. Charlie Vostal whose telephone number is 571-270-3992. The examiner can normally be reached on 7:30am to 5:00pm EST Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on 571-272-4001. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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O. C. Vostal

Examiner

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March 2009

/ARIO ETIENNE/

Supervisory Patent Examiner, Art Unit 2457